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Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	22517	object with (statistics or data or measure) same database	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/14 16:14
L2	2560	object with (statistics or data or measure) with database same (work or optimization or monitor$4 or track$4 or check$4)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/14 16:16
L3	87	object with (statistics or data or measure) with database with (work or optimization or monitor$4 or track$4 or check$4) same (configuration or definition or specification)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/14 16:17
L4	2	object with (statistics or data or measure) with database with (work or optimization or monitor$4 or track$4 or check$4) same (configuration or definition or specification) same schedul$4	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/14 16:45
L5	1	object with (statistics or data or measure) with database with (workload or optimization or monitor$4 or track$4 or check$4) same (configuration or definition or specification) same schedul$4	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/14 16:46
L6	21	object with database with (workload or optimization or monitor$4 or track$4 or check$4) same (configuration or definition or specification) same schedul$4	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/14 16:48
L7	7	object with database with (workload or optimization or monitor$4 or track$4 or check$4) same (configuration or definition or specification) same schedul$4 and reconfigur$5	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/14 16:48

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L8	7	object with database with (workload or optimization or monitor$4 or track$4 or check$4) same (configuration or definition or specification) same schedul$4 and reconfigur$5 and (automatic$4 or dynamic$4 or continuous$4 or "system initiat$4")	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/14 17:09
L9	17	object with (workload or optimization or monitor$4 or track$4 or check$4) same (configuration or definition or specification) same schedul$4 and reconfigur$5 and (automatic$4 or dynamic$4 or continuous$4 or "system initiat$4") same (storage or database or server)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/14 17:14
L10	16	object with (workload or optimization or monitor$4 or track$4 or check$4) same (configuration or definition or specification) same schedul$4 and reconfigur$5 and (automatic$4 or dynamic$4 or continuous$4 or "system initiat$4") with (storage or database or server)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/14 17:18
L11	9	object with (workload or optimization or monitor$4 or track$4 or check$4) same (configuration or definition or specification) same schedul$4 and reconfigur$5 same database	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/14 17:21
L12	27	(workload or optimization or monitor$4 or track$4 or check$4) with (configuration or definition or specification) same schedul$4 and reconfigur$5 with database	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/14 17:28
L13	2	(workload or optimization or monitor$4 or track$4 or check$4) with object with schedul$4 and reconfigur$5 with database	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/14 17:29
L14	6	(workload or optimization or monitor$4 or track$4 or check$4) with object with schedul$4 and reconfigur$5 same database	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/14 17:41

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L15	66	(workload or optimization or monitor$4 or track$4 or check$4) with object with schedul$4 and configur$5 with database	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/14 17:43
L16	1	(workload or optimization or monitor$4 or track$4 or check$4) with object with schedul$4 and configur$5 with database and action with database same activity	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/14 17:43
L17	17	(workload or optimization or monitor$4 or track$4 or check$4) with object with schedul$4 and configur$5 with database and (onitor$4 or track$4 or check$4) with (modif$4 or chang$4 or updat$4 or edit$4 or delet$4 or addition) same object same database	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/14 17:50
L18	28	(workload or optimization or monitor$4 or track$4 or check$4) with object with schedul$4 and configur$5 with database and (onitor$4 or track$4 or check$4) with (modif$4 or chang$4 or updat$4 or edit$4 or delet$4 or addition) same database	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/14 18:04

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Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L19	11	reconfigur$6 with database with object with (definit$4 or plan or policy or specification)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/14 18:41
L20	6	reconfigur$6 with database with object with (definit$4 or plan or policy or specification) same schedul$4	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/14 18:48
L21	6	"object advisor" and object with database with schedul$4	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/14 18:48
L22	7	object with advisor and object with database with schedul$4	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/14 18:49
L23	7	object with advisor and object with database same schedul$4	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/14 18:49
L24	0	object with advisor and object with database and schedul$4 same agent	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/14 18:49
L25	51	object with advisor and object with database	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/14 18:49
L26	8	object with advisor and object with database and object with statistic$4	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/14 18:50

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L27	10	object with advisor and object same database and object with statistic$4	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/14 18:50
L28	9	configuration with advisor and object same database and object with statistic$4	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/14 18:51
L29	1	configuration with advisor and object same database and ibm and db2	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/14 18:51
L30	113	configuration with object same database and ibm and db2	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/14 18:52
L31	29	configuration with object same database and ibm and db2 and (reconfiguration or reconfig$5)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/14 18:53
L32	0	configuration with object same database and ibm and db2 and (reconfiguration or reconfig$5) and schedul$4 with action	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/14 18:53
L33	2	configuration same object same database and ibm and db2 and (reconfiguration or reconfig$5) and schedul$4 with action	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/14 19:02
L34	31	configuration same object same database and ibm and db2 and (reconfiguration or reconfig$5) and schedul$4	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/14 19:02

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L35	27	configuration same object same database and ibm and db2 and (reconfiguration or reconfig$5) and schedul$4 same (dynamic$4 or automatic$4)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/14 19:09
L36	25	configuration same object with database and ibm and db2 and (reconfiguration or reconfig$5) and schedul$4 with (dynamic$4 or automatic$4)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/14 19:09
L37	24	configuration same object with database and ibm and db2 and (reconfiguration or reconfig$5) and schedul$4 with (dynamic$4 or automatic$4) and (modif$4 or updat$4 or chang$4 or mov$4 or edit$4 or add or delet$4) with object	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/14 19:25
L38	25	configuration same object with database and ibm and db2 and (reconfiguration or reconfig$5) and schedul$4 with (dynamic$4 or automatic$4) and (modif$4 or updat$4 or chang$4 or mov$4 or edit$4 or add or delet$4) same object	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/14 19:27
L39	29	configuration same object with database and ibm and (reconfiguration or reconfig$5) and schedul$4 with (dynamic$4 or automatic$4) and (modif$4 or updat$4 or chang$4 or mov$4 or edit$4 or add or delet$4) same object	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/14 19:28
L40	53	object with database and ibm and (reconfiguration or reconfig$5) and schedul$4 with (dynamic$4 or automatic$4) and (modif$4 or updat$4 or chang$4 or mov$4 or edit$4 or add or delet$4) same object	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/14 20:06
L41	37	object with database and ibm and (reconfiguration or reconfig$5) and schedul$4 with (dynamic$4 or automatic$4) and (modif$4 or updat$4 or chang$4 or mov$4 or edit$4 or add or delet$4) same object same action	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/14 20:10

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L42	0	object with database and ibm and (reconfiguration or reconfig$5) and schedul$4 with (dynamic$4 or automatic$4) same object same action and (modif$4 or updat$4 or chang$4 or mov$4 or edit$4 or add or delet$4) same object	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/14 20:12
L43	4	object with database and ibm and (reconfiguration or reconfig$5) and schedul$4 with (dynamic$4 or automatic$4) same object and (modif$4 or updat$4 or chang$4 or mov$4 or edit$4 or add or delet$4) same object	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/14 20:12
L44	37	object with database and ibm and (reconfiguration or reconfig$5) and schedul$4 with (dynamic$4 or automatic$4) and (modif$4 or updat$4 or chang$4 or mov$4 or edit$4 or add or delet$4) same object same action	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/14 20:13

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Dynamic query re-optimization

Ng, K.W. Zhenghao Wang Muntz, R.R. Nittel, S.
Dept. of Comput. Sci., California Univ., Los Angeles, CA;

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Posted online: 2002-08-06 23:00:30.0

Abstract
Very long running queries in database systems are not uncommon in non traditional applicatio as image processing or data warehousing analysis. Query optimization, therefore, is important. estimates of the query characteristics before query execution are usually inaccurate. Further, s configuration and resource availability may change during long evaluation period. As a result, c evaluated with sub-optimal plan configurations. To remedy this situation, we have designed a r re-optimize suboptimal query plan configurations on-the-fly with Conquest, an extensible and d processing system. A dynamic optimizer considers reconfiguration cost as well as execution cc the best query plan configuration. Experimental results are presented

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Dynamic reorganization of object databases

Wietrzyk, V.S. Orgun, M.A.
Dept. of Comput., Macquarie Univ., North Ryde, NSW ;

This paper appears in: Database Engineering and Applications, 1999. IDEAS '99. In
Symposium Proceedings
Publication Date: Aug 1999
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Meeting Date: 08/02/1999 - 08/04/1999
Location: Montreal, Que., Canada
ISBN: 0-7695-0265-2
References Cited: 17
INSPEC Accession Number: 6352672
Digital Object Identifier: 10.1109/IDEAS.1999.787259
Posted online: 2002-08-06 23:00:27.0

Abstract
We consider the problem of optimizing the number of I/O operations by means of an eff the objective to overcome deficiencies of existing solutions. Our main objective is to dyr database organizations, online, according to the access patterns of the users without ac overhead on processing workload. We propose a clustering schedule that may be conv database management systems (ODBMS); it combines flexibility, dynamics, and efficier describes relative partial validation of our approach using Versant

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61 Manageability, availability and performance in Porcupine: a highly scalable, cluster-based mail service
Yasushi Saito, Brian N. Bershad, Henry M. Levy
December 1999 **ACM SIGOPS Operating Systems Review , Proceedings of the seventeenth ACM symposium on Operating systems principles SOSP '99**, Volume 33 Issue 5
Publisher: ACM Press
Full text available: pdf(1.62 MB) Additional Information: full citation, abstract, references, citings, index terms

This paper describes the motivation, design, and performance of Porcupine, a scalable mail server. The goal of Porcupine is to provide a highly available and scalable electronic mail service using a large cluster of commodity PCs. We designed Porcupine to be easy to manage by emphasizing dynamic load balancing, automatic configuration, and graceful degradation in the presence of failures. Key to the system's manageability, availability, and performance is that sessions, data, and underlying serv ...

62 A flexible interface and architecture for container and intermodal freight simulations
Beth C. Kulick, James T. Sawyer
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63 Activity scheduling in the dynamic multi-project setting: choosing heuristics through deterministic simulation
Robert C. Ash
December 1999 **Proceedings of the 31st conference on Winter simulation: Simulation--a bridge to the future - Volume 2**
Publisher: ACM Press
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64 BPR and logistics: the role of computational models

Leon F. McGinnis
December 1999 **Proceedings of the 31st conference on Winter simulation: Simulation--a bridge to the future - Volume 2**
Publisher: ACM Press
Full text available: pdf(66.99 KB) Additional Information: full citation, index terms

65 Static scheduling algorithms for allocating directed task graphs to multiprocessors
Yu-Kwong Kwok, Ishfaq Ahmad
December 1999 **ACM Computing Surveys (CSUR)**, Volume 31 Issue 4
Publisher: ACM Press
Full text available: pdf(723.58 KB) Additional Information: full citation, abstract, references, citings, index terms

Static scheduling of a program represented by a directed task graph on a multiprocessor system to minimize the program completion time is a well-known problem in parallel processing. Since finding an optimal schedule is an NP-complete problem in general, researchers have resorted to devising efficient heuristics. A plethora of heuristics have been proposed based on a wide spectrum of techniques, including branch-and-bound, integer-programming, searching, graph-theory, randomization, genetic ...

Keywords: DAG, automatic parallelization, multiprocessors, parallel processing, software tools, static scheduling, task graphs

66 Specification and implementation of exceptions in workflow management systems
Fabio Casati, Stefano Ceri, Stefano Paraboschi, Guiseppe Pozzi
September 1999 **ACM Transactions on Database Systems (TODS)**, Volume 24 Issue 3
Publisher: ACM Press
Full text available: pdf(250.40 KB) Additional Information: full citation, abstract, references, citings, index terms

Although workflow management systems are most applicable when an organization follows standard business processes and routines, any of these processes faces the need for handling exceptions, i.e., asynchronous and anomalous situations that fall outside the normal control flow.In this paper we concentrate upon anomalous situtations that, although unusual, are part of the semantics of workflow applications, and should be specified and monitored coherently; in most real-life applica ...

Keywords: active rules, asynchronous events, exceptions, workflow management systems

67 Garbage collection for a client-server persistent object store
Laurent Amsaleg, Michael J. Franklin, Olivier Gruber
August 1999 **ACM Transactions on Computer Systems (TOCS)**, Volume 17 Issue 3
Publisher: ACM Press
Full text available: pdf(267.18 KB) Additional Information: full citation, abstract, references, citings, index terms, review

We describe an efficient server-based algorithm for garbage collecting persistent object stores in a client-server environmnet. The algorithm is incremental and runs concurrently with client transactions. Unlike previous algorithms, it does not hold any transactional locks on data and does non require callbacks to clients. It is fault-tolerant, but performs very little logging. The algorithm has been designed to be integrated into existing systems, and therefore it works with standard i ...

Keywords: client-server system, logging, persistent object-store, recovery

68 Client-server computing in mobile environments

Jin Jing, Abdelsalam Sumi Helal, Ahmed Elmagarmid
June 1999 **ACM Computing Surveys (CSUR)**, Volume 31 Issue 2
Publisher: ACM Press

Full text available: pdf(233.31 KB) Additional Information: full citation, abstract, references, citings, index terms, review

Recent advances in wireless data networking and portable information appliances have engendered a new paradigm of computing, called mobile computing, in which users carrying portable devices have access to data and information services regardless of their physical location or movement behavior. In the meantime, research addressing information access in mobile environments has proliferated. In this survey, we provide a concrete framework and categorization of the various way ...

Keywords: application adaptation, cache invalidation, caching, client/server, data dissemination, disconnected operation, mobile applications, mobile client/server, mobile compuing, mobile data, mobility awareness, survey, system application

69 Information survivability control systems

Kevin Sullivan, John C. Knight, Xing Du, Steve Geist
May 1999 **Proceedings of the 21st international conference on Software engineering**
Publisher: IEEE Computer Society Press
Full text available: pdf(1.23 MB) Additional Information: full citation, references, citings, index terms

Keywords: architecture economics, control, infrastructure survivability

70 Active database systems

Norman W. Paton, Oscar Díaz
March 1999 **ACM Computing Surveys (CSUR)**, Volume 31 Issue 1
Publisher: ACM Press

Full text available: pdf(2.68 MB) Additional Information: full citation, abstract, references, citings, index terms, review

Active database systems support mechanisms that enable them to respond automatically to events that are taking place either inside or outside the database system itself. Considerable effort has been directed towards improving understanding of such systems in recent years, and many different proposals have been made and applications suggested. This high level of activity has not yielded a single agreed-upon standard approach to the integration of active functionality with conventional databa ...

Keywords: active databases, events, object-oriented databases, relational databases

71 Report on the eighth ACM SIGOPS European workshop

Jean Bacon
January 1999 **ACM SIGOPS Operating Systems Review**, Volume 33 Issue 1
Publisher: ACM Press
Full text available: pdf(988.38 KB) Additional Information: full citation, index terms

72 Coyote: a system for constructing fine-grain configurable communication services

Nina T. Bhatti, Matti A. Hiltunen, Richard D. Schlichting, Wanda Chiu
November 1998 **ACM Transactions on Computer Systems (TOCS)**, Volume 16 Issue 4
Publisher: ACM Press

Full text available: pdf(290.21 KB) Additional Information: full citation, abstract, references, citings, index terms

Communication-oriented abstractions such as atomic multicast, group RPC, and protocols for location-independent mobile computing can simplify the development of complex applications built on distributed systems. This article describes Coyote, a system that supports the construction of highly modular and configurable versions of such abstractions. Coyote extends the notion of protocol objects and hierarchical composition found in existing systems with support for finer-grain microprotocol ob ...

Keywords: x-kernal, configurable sevices, customization, event handlers, event-driven execution, membership, microprotocols, mobile computing, modularity, multicast, protocols, remote procedure call

73 A transactional workflow based distributed application composition and execution environment

Santosh K. Shrivastava, Stuart M. Wheater
September 1998 **Proceedings of the 8th ACM SIGOPS European workshop on Support for composing distributed applications**
Publisher: ACM Press
Full text available: pdf(774.30 KB) Additional Information: full citation, index terms

74 Dynamically reconfiguring multimedia components: a model-based approach

Scott Mitchell, Hani Naguib, George Coulouris, Tim Kindberg
September 1998 **Proceedings of the 8th ACM SIGOPS European workshop on Support for composing distributed applications**
Publisher: ACM Press
Full text available: pdf(842.50 KB) Additional Information: full citation, index terms

75 Concurrency and distribution in object-oriented programming

Jean-Pierre Briot, Rachid Guerraoui, Klaus-Peter Lohr
September 1998 **ACM Computing Surveys (CSUR)**, Volume 30 Issue 3
Publisher: ACM Press

Full text available: pdf(289.34 KB) Additional Information: full citation, abstract, references, citings, index terms

This paper aims at discussing and classifying the various ways in which the object paradigm is used in concurrent and distributed contexts. We distinguish among the library approach, the integrative approach, and the reflective approach. The library approach applies object-oriented concepts, as they are, to structure concurrent and distributed systems through class libraries. The integrative approach consists of merging concepts such as obj ...

Keywords: concurrency, distribution, integration, libraries, message passing, object, reflection

76 Using metalevel techniques in a flexible toolkit for CSCW applications

Paul Dourish
June 1998 **ACM Transactions on Computer-Human Interaction (TOCHI)**, Volume 5 Issue 2
Publisher: ACM Press

Full text available: pdf(292.97 KB) Additional Information: full citation, abstract, references, citings, index terms

Ideally, software toolkits for collaborative applications should provide generic, reusable components, applicable in a wide range of circumstances, which software developers can assemble to produce new applications. However, the nature of CSCW applications and the mechanics of group interaction present a problem. Group interactions are significantly constrained by the structure of the underlying infrastructure, below the level at which toolkits typically offer control. This article describe ...

Keywords: consistency control, consistency guarantees, data distribution, divergency, metalevel programming, open implementation, software architecture

77 Active pages: a computation model for intelligent memory

Mark Oskin, Frederic T. Chong, Timothy Sherwood
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Microprocessors and memory systems suffer from a growing gap in performance. We introduce *Active Pages,* a computation model which addresses this gap by shifting data-intensive computations to the memory system. An Active Page consists of a page of data and a set of associated functions which can operate upon that data. We describe an implementation of Active Pages on RADram (Reconfigurable Architecture DRAM), a memory system based upon the integration of DRAM and reconfigurable logic. Res ...

78 An approach to large-scale collection of application usage data over the Internet

David M. Hilbert, David F. Redmiles
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79 Concurrency control: methods, performance, and analysis

Alexander Thomasian
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Keywords: Markov chains, adaptive methods, concurrency control, data contention, deadlocks, flow diagrams, load control, optimistic concurrency control, queueing network models, restart-oriented locking methods, serializability, thrashing, two-phase locking, two-phase processing, wait depth limited methods

80 Data partitioning and load balancing in parallel disk systems



Peter Scheuermann, Gerhard Weikum, Peter Zabback

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Parallel disk systems provide opportunities for exploiting I/O parallelism in two possible ways, namely via inter-request and intra-request parallelism. In this paper, we discuss the main issues in performance tuning of such systems, namely striping and load balancing, and show their relationship to response time and throughput. We outline the main components of an intelligent, self-reliant file system that aims to optimize striping by taking into account the requirements of the applications, an ...

Keywords: Data allocation, Disk cooling, File striping, Load balancing, Parallel disk systems, Performance tuning

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